# Figure 1.

```
Sequence type explicitly set to Protein
Sequence format is Pearson
Sequence 1: new_S100_cytokine
Sequence 2: G491246
                                   ilO aa
Sequence 3: W27152
                                    98 aa
Start of Pairwise alignments
Aligning...
Sequences (1:2) Aligned. Score: 23
Sequences (1:3) Aligned. Score: 34
Sequences (2:3) Aligned. Score: 29
Start of Multiple Alignment
There are 2 groups
Aligning...
Group 1:
                            Delayed
                            Delayed
Group 2:
Sequence: 1
              Score: 0
Sequence: 3
             Score:839
Sequence: 2
              Score:724
Alignment Score 444
CLUSTAL-Alignment file created [/data4/genetools/lrastelli4630clustalw]
```

#### Multiple Alignment:

Probe Size: 104 Amino Acids Probe File: Irastelliblocks.seq Target File (s): blocks.dat Records Searched: 4034

Scores Done: 4034
Alignments Done: 535470

Mouse-over to show defline and score. Click to show alignments

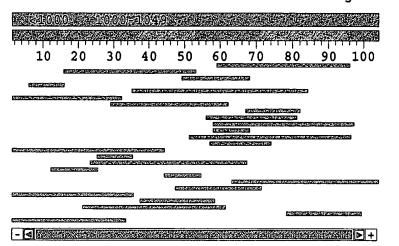


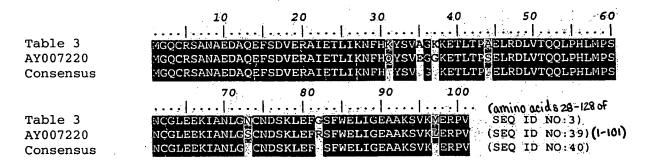
Fig. 4A

# Replacement Sheet Application No. 10/614,599 5/9

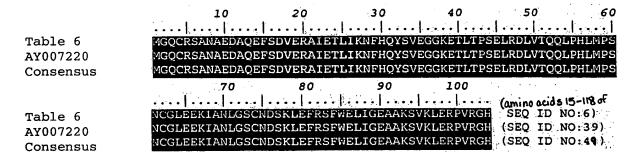
												5/5	,												
AA#	59 SNCGLEEKi aNLGSCADSXLeFRSFWeLICeAAKSVK (SEQ ID NO:12)	16 DVERAIETLIKNFHQYSVEGGKETltpsElrdLvtQQ (SEQ ID NO:13)	49 VIQQIphiMpSncgleeki (SEQ ID NO:14)	6 Anaedaqefs (Seq id no:15)	35 GCkEtlTpselRDlVTQQlphLnpsncqleEkiANlgscndSkleFRsf(SEQ ID NO:16)	0 mgQcRSAnAedAQefSdVERaIEtlIKNFhqY (SBQ ID NO:17)	29 hqYSvegGKetltPselrdLvTQQlPHlMpsnC(SEQ ID NO:18)	67 ianlgsCrWdsKlEFR (SEQ ID NO:19)	56 IMpSNvgLeBkiAniGScndsklef (SEQ ID NO:20)	58 pSnCGLeeklaNlgSCnDSkleFrSfuBllgEAaKSVkl (SEQ ID NO:21)	58 PSNCGLEEKI (SEQ ID NO:22)	51 qqlpKlmpsnCqleEKIanlqScndsKlefRsfWeliqeaaksvk(SEQ ID NO:23)	57 mPShCgleEKIanlGsC (SEQ ID NO:24)	-1 mggCrSaNAEDaQeFsDVeRaIeTlIknfhQySveggketLfpSE (SEQ ID NO:25)	25 iKNFhqYsVE (SEQ ID NO:26)	23 TLIknfhgySveggkeTlTPSElrdlvtQQlphLMPsNcGLeeK(SEQ ID NO:27)	12 gefSDveraietl (SEQ ID NO:28)	44 ELRDLVTGQL (SEQ ID NO:29)	63 LeekiaNIgScnDsKlEfrsFwelIgBaaKsVklERpvRgh (SEQ ID NO:30)	47 dIVTgqLPhIMpsncGlEekIANL (SEQ ID NO:31)	1 gQCRsANaedagEFsDVerAIET11knfHgYSvE (SEQ ID NO:32)	37 keTLTpseLrdlVtQQlpKln (SEQ ID NO:33)	21 IeTlikufhqysve33kETltpselrdlvTQQlphLMpSN (SEQ ID NO:34)	78 LEFRSFWELIGERAAKSVKLER (SEQ ID NO:35)	-2 MagcrsAnAedAoEfSdverAiEtliKNfhavSvE (SEQ ID NO:36)
RF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Strength Score RF AA#	1057	1038	1021	991	990	989	987	983	976	976	976	974	974	973	972	970	968	967	967	964	963	963	960	960	096
ength	1336	1345	1456	1227	1758	1412	1539	1499	1633	1581	990	2173	1433	1508	1127	1692	1298	1092	1826	1552	1528	1567	1580	1200	1908
Description Str	0 3-100/ICaBP type calcium binding protein.	0 3-100/ICaBP type calcium binding protein.	0 Bacterial type II secretion system protein F	0 Ubiquitin carboxyl-terminal hydrolases family	0 Bacterial themotaxis sensory transducers prot	0 Phosphoenolpyruvate carboxykinase (ATP) prote	<pre>0 Prokaryotic-type carbonic anhydrases proteins</pre>	0 Ergosterol biosynthesis ERG4/ERG24 family pro	0 Lysosome-associated membrane glycoproteins du	0 Phosphofructokinase proteins.	0 PH domain proteins profile.	0 Hyotoxins proteins.	0 Phosphatidylinositol-specific phospholipase X	0 Glypicans proteins.	0 Membrane attack complex components / perforin	O Urease nickel ligands proteins.	O Phosphoglycerate mutase family phosphohistidi	0 Ribosomal protein L23 proteins.	0 2'-5'-oligoadenylate synthetases proteins.	0 Formate and nitrite transporters proteins.	0 Glycoprotein hormones beta chain proteins.	O Vinculin family talin-binding region proteins	0 Beta-lactamases class B proteins.	0 Heat shock hsp20 proteins family profile.	<pre>0 Hydroxymethylglutaryl-coensyme A lyase protei</pre>
AC#	BL00303B	BL00303A	BL00874A	BL00972B	BL00538G	BL005321	BL00704A	BL01017E	BL00310E	BL00433C	BL50003	BL00459	BL50007C	BL01207B	BL00279B	BL01120D	BL00175B	BL00579A	BL00832B	BL01005C	BL00261A	BL00663A	BL00743A	BL01031B	BL01062C

# Fig. 4A (Continued)

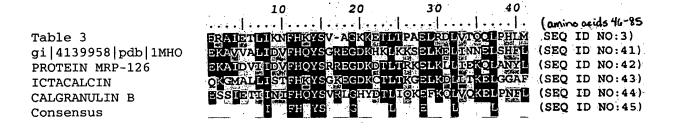
# Figure 4B



# Figure 4C



## Figure 4D



## Figure 4E

Table 6 gi | 4139958 | pdb | 1MHO PROTEIN MRP-126 CALGRANULIN B CALGRANULIN B Consensus

	10	20	30	40	* .	
1				1	(amino a	crds 33-72
RENI	IDUKNET	OYSV-EGGKETL	TPSEL ROLL	<b>QOLPHIM</b>	SEQ ID	NO:6)
ERAW	ALIDVEH	QYS REGINER	KRSELIELIN	NEISHE	(SEQ ID	NO:41)
	DVIIDVEH	OYSKREGEKDTL	ORKELKEL IGE	KOLANYL	(SEQ ID	NO:42)
SSI	Handilia	OYSVENSHYDTL	CKED: OLVO	KOGL PNFL	(SEQ ID	NO:44)
RS	TTIDEFH	OYSRREGHPOTL	SKKEFROMVE	ADLATEM	(SEQ ID	NO:46)
200	I SH	1 64	20 20 20 E			NO:47)
<b>.</b>				<b>.</b>	,	

	**************************************
	1
65677221+	GAATTCCAGAGGGAGTTCTCAGTGCCCCCGGACAGGCCTCTCCAGCTTCACACTCTTGGC
AA315020-	TGCCCCCGGACAGTCCTCTCACACTCTTGGC
consensus	GAATTCCAGAGGAGTTCTCAGTGCCCCCGGACAGGCCTCTCCAGCTTCACACTCTTGGC
65677221+	CGCTTCTCCAATCAGCTCCCAGAAACTCCTGAACTCCAGTTTAGAGTCATTGCAGCTGCC
AA315020-	CGCTTCTCCAATCAGCTCCCAGAACTCCTGAACTCCAGTTTAGAGTCATTGCAGCTGCC
snsuesuoo	CGCTTCTCCAATCAGCTCCCAGAAACTCCTGAACTCCAGTTTAGAGTCATTGCAGCTGCC
65677221+	CAGGTTGGCAATTTTCTCTTCCAGGCCACAGTTGCTCGGCATGAGATGGGGCAGCTGCTG
AA315020-	CAGGTTGGCAATTTTCTCTTCCAGGCCANAGTTGCTCGGCATGAGATGGGGCAGCTGCTG
consensus	CAGGTTGGCAATTTTCTCTTCCAGGCCACAGTTGCTCGGCATGAGATGGGGCAGCTGCTG
65677221+	GGTGACCAGGTCCCGTAGCTCAGAAGGGGTCAGCGTCTCCTTCCCACCCTCCACGGAGTA
AA315020-	GGTGACCAGGTCCCGTAGCTCAGAAGGGGTCAGCGTCTCCTTCCCACCCTCCACGGAGTA
consensus	GGTGACCAGGTCCCGTAGCTCAGAAGGGGTCAGCGTCTCCTTCCCACCGAGGAGTA
65677221+	CTGGTGAAAGTTCTTGATGAGGGTCTCAATGGCCCTCTCCACATCACTGAATTC (SEQ ID NO: 37)
AA315020-	CTGGTGAAAGTTCTTGATGAGGTCTCAATGGCCCTCTCCACATCACTGAATTCCTGAGC
consensus	CTGGTGAAAGTTCTTGATGAGGTCTCAATGGCCCTCTCCACATCACTGAATTCCTGAGC
AA315020-	ATCCTCTGCGTTGGCTGACCGACACTGTCCCATGGTGCTCACTGTGTCTGGTCCTTTGGT
snsuesuoo	ATCCTCTGCGTTGGCTGACCGACACTGTCCCATGGTGCTCACTGTGTCTGGTCCTTTGGT
AA315020-	GAGAGTTCTGTTGTCCTAT (SEQ ID NO: 48)
snsuesuoo	GAGAGTTCTGTTGTCCTAT (SEQ ID NO: 5)